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BOTANICAL GAZETTE.

VOL. IX.

MAY, 1884.

No. 5.

Botanical Papers of George Engelmann.

PREPARED BY C. S. SARGENT.

The following list contains, so far as I know, all the botanical papers published by Dr. Engelmann. A few short notes in the *Gardener's Chronicle*, of London, to which Dr. Engelmann was an occasional contributor, may have escaped notice. If this is the case, the editor of that journal will, no doubt, supply the omissions. It will be seen that the publication of these papers extended over a period of fifty-one years, the last having appeared only a few weeks before the death of the author.

De Antholysi Prodrromus. Dissertatio inauguralis phytomorphologica.

Frankfort. 5 tab. 1832.

A monography of North American Cuscutineæ.

Am. Jour. Sci. 1. 43. 333-345, 1 tab. 1842.

Corrections and additions to the same.

Am. Jour. Sci. 1. 45. 73-77. 1843. (Bot. Zeit. 2. 553-555, 1844; 4. 273-281, 1846; London Jour. Bot. 2. 189-199, with original additions and corrections, 1843.)

Notes and additions to a monography of the North American species of the genus *Equisetum* by Alexander Braun.

Am. Jour. Sci. 1. 46. 81-91. 1844.

Introductory note to a brief notice of the Charæ of North America by Alexander Braun.

Am. Jour. Sci. 1. 46. 92-93. 1844.

Catalogue of a collection of plants made in Illinois and Missouri by Charles A. Geyer, with critical remarks, etc.

Am. Jour. Sci. 1. 46. 94-104. 1844.

Plantæ Lindheimerianæ; an enumeration of the plants collected in Texas, etc., by F. Lindheimer, with remarks and descriptions of new species (with A. Gray).

Boston Journ. Nat. Hist. 5. 210-264. 1845.

Notes on the North American species of *Isoëtes* and *Marsilea* by Alexander Braun.

Am. Jour. Sci. 2. 3. 52-56. 1847.

Notes on some Ferns of the U. S. by Professor Kunze of Leipsic; with notes by A. Braun and G. Engelmann.

Am. Jour. Sci. 2. 6. 80-89. 1848.

Sketch of the Botany of Dr. A. Wislizenus' Expedition.

An appendix to the Memoir of a Tour to Northern Mexico connected with Col. Doniphan's Expedition in 1846-1847, 87-115. Senate Publication. 1848.

Plantæ Fendlerianæ, *Drymaria nodosa*, n. sp. 12; *Talinum calycinum*, n. sp. 14; N. Am. *Gerania*, 26; *Calliandra Chamædrys*, n. sp. 39; Cactaceæ, p. 49; Lorantheæ, 58.

Mem. Am. Acad. Arts and Sci. 4. 1849.

Plantæ Lindheimerianæ, Part 2, *Vesicaria recurvata*, n. sp. 147; *Paronychia Lindheimeri*, n. sp. 152; *Eysenhardtia spinosa*, n. sp. 174; *Prunus minutiflora*, n. sp. 185; *Passiflora tenuiloba*, n. sp. 192; Cactaceæ, 195; characters of *Daucosma* (with A. Gray), 210; Lorantheæ, 212.

Boston Jour. Nat. Hist. 6. No. 11. 1850.

On the character of the vegetation of S. W. Texas.

Proc. Am. Ass. Sci. 5. 223-229. 1851.

Notes on *Cereus giganteus* of S. E. California and some other Californian Cactaceæ.

Am. Jour. Sci. 2. 14. 335-339, 446. 1852.

Plantæ Wrightianæ, Part 1, Notes upon *Linum*, 25; *Rhus microphylla*, 31; *Desmodium Wislizeni*, 53; Characters of *Fendlera* (with A. Gray).

Smithsonian Contrib. to Knowledge. 3. Art. 5. 1852.

Further notes on *Cereus giganteus* of S. E. California, with a short account of another allied species of *Sonora*.

Am. Jour. Sci. 2. 17. 231-235. 1854.

Cactaceæ of Pacif. R. R. Expedition.

Pacif. R. R. Rep. 4. Pt. 5. No. 3, 27-58, 24 tab. 1856.

Elaboration of *Cuscuta*, *Euphorbia*, *Alisma*, *Sagittaria*, *Echinodorus*.

Gray's Manual Northern United States, 2d ed. 1856.

Synopsis of the Cactaceæ of the U. S. and adjacent regions.

Proc. Am. Acad. 3. 259-314, 345-346. 1856.

Account of the western part of Texas.

Boston Jour. Nat. Hist. 6. 34-40. 1857.

Two new dioecious grasses of the United States.

Trans. St. Louis Acad. Sci. 1. 431-442, 3 tab. 1859.

Systematic arrangement of the species of the genus *Cuscuta*, with critical remarks on old species and descriptions of new ones.

Trans. St. Louis Acad. Sci. 1. 453-523. 1859.

Cactaceæ of the Mexican Boundary.

U. S. and Mexican Bound. Surv. 2. Pt. 1. 1-78, 76 tab. 1859.

The Grape Vines of Missouri.

Trans. St. Louis Acad. Sci. 1. 660-662. 1860.

Remarks on the hybrids of Verbena.

Trans. St. Louis Acad. Sci. 1. 675-676. 1860.

Botany in Rep. Geol. and Nat. Hist. of the Upper Missouri, by F. V. Hayden.

Trans. Am. Phil. Soc. n. ser. 12. 182-212. 1861.

Cactaceæ and Euphorbiaceæ of Ives Report.

Colorado of the West, Part 4, 12-14, 26-27. 1861.

Notes in the Enumeration of the Plants of the Rocky Mts., by Asa Gray.

Am. Jour. Sci. 2. 34. 256-257; Supplements, 1 and 2, 330-335. 1862.

Remarks on *Nelumbium luteum*, 136; on the dimorphism of *Draba brachycarpa*, 154; on 2 species of fungi destructive to vineyards, 165; on the nature of the pulp of *Cactus* fruit, 166; on the structure and fruit of the genus *Ribes*, 180.

Trans. St. Louis Acad. Sci. 2. 1862.

Additions to the Cactus Flora of the United States.

Trans. St. Louis Acad. Sci. 2. 197-204. 1862.

On *Pinus aristata*, a new species of Pine discovered by Dr. C. C. Parry in the alpine regions of Colorado Territory; and on some other Pines of the Rocky Mts.

Trans. St. Louis Acad. Sci. 2. 205-214, 2 tab. 1862. (*Linnaea*, 33, 383-394.)

Note on *Polygonum tenue*.

Proc. Philad. Acad., March, 1863, 75.

New species of *Gentiana* from the alpine regions of the Rocky Mts.

Trans. St. Louis Acad. Sci. 2. 214-218, 5 tab. 1863.

Remarks on the fruit and seed of different species of *Viburnum* and *Cornus*.

Trans. St. Louis Acad. Sci. 2. 269-271. 1865.

New plants from the Rocky Mts.; *Nuphar polysepalum*, etc.

Trans. St. Louis Acad. Sci. 2. 282-285. 1865.

Elaboration of *Cillitriche*, *Pinus*, *Juncus*, *Sparganium*, *Isoetes*.

Gray's Manual Northern U. S., 5th ed. 1867. In addition to genera in 2d ed.

A Revision of the North American species of the genus *Juncus*, with a description of new or imperfectly known species.

Trans. St. Louis Acad. Sci. 2. 424-498, 590. 1868.

Weber der Charaktere der *Abietinum* genera.

Bot. Zeit. 26. 484-487. 1868.

Speirodela.

Bull. Torr. Bot. Club. 1. 42-43; 2. 10-11, 46-47. 1870, 1871.

Notes on *Opuntia* and *Speirodela*.

Bull. Torr. Bot. Club. 2. 34-35. 1871.

Cactaceæ, *Yucca*, *Agave*, *Hesperaloe*.

King's Rep. Geol. Surv. 40th Par. 5. 115-120, 496-497. 1871.

- The flower of *Yucca* and its fertilization.
Bull. Torr. Bot. Club. 3. 33. 1872.
- Agave.**
Bull. Torr. Bot. Club. 3. 37. 1872.
- Arceuthobium minutum.*
Trans. St. Louis Acad. Sci. 3. 83. 1872.
- The true Grape Vines of the old United States.
Am. Naturalist, 6. 539-542. 1872.
- Notes on the genus *Yucca.*
Trans. St. Louis Acad. 3. 17-64, 210-214, 371-372. 1873.
- Juncus maritimus.*
Bull. Torr. Bot. Club. 4. 40. 1873.
- Vitis.*
Bull. Torr. Bot. Club. 5. 233-234, 310-311. 1874.
- The true Grape Vines of the United States.
Sixth Ann. Rep. State Entomologist of Mo., 70-76. 1874.
- Lecture on the Forests of the Rocky Mountains.
Reported in St. Louis Democrat, March 6, 1875. (Meehan's Gardener's Monthly, 17. 151-153, 181-184, 214-217.)
- The true Grape Vines of the United States.
Bushberg Cat. 2d ed. 4-11, 1 tab. 1875.
- About the Oaks of the United States.
Trans. St. Louis Acad. Sci. 3. 372-400, 539-543. 1876, 1877.
- Characters of *Abies subalpina.*
Am. Naturalist, 10, 553-555. 1876.
- Notes on Coniferæ.
Proc. Philad. Acad., 1876, 173-175. (Meehan's Gardener's Monthly, 19, 308.)
- Report of an Expedition across the Great Basin of Utah Terr. in 1859, by Capt. J. H. Simpson (Engineer Dept. U. S. Army).
Appendix M. Botany, 435-447, 3 tab. 1876.
- Oak and Grape Fungi.
Trans. St. Louis Acad. Sci. 3. 215-216. 1876.
- Morphology of the carpellary scale of Coniferæ.
Am. Jour. Sci. 3. 12. 469. 1876.
- Geographical range and migration of plants and animals.
Trans. St. Louis Acad. Sci. 3. 219-232. 1876.
- A new *Cuscuta*, 69; *Cuscuta racemosa*, 80; *Pinus serotina*, 125.
Botanical Gazette, 2. 1877.
- On *Abies Menziesii* and *A. Engelmanni.*
Gardener's Chronicle, London, n. ser. 7. 790. 1877.
- Geographical Distribution of North American Flora.
Trans. St. Louis Acad. Sci. 3. 270-271. 1877.
- The American Junipers of the section *Sabina.*
Trans. St. Louis Acad. Sci. 3. 583-592. 1877.
- A g ve, with 2 photographs, 291-322, 370-371; Flowers of *Agave Shawii*, 579-582, 1 tab.
Trans. St. Louis Acad. Sci. 3. 1878.

- The species of *Isoëtes* of the Indian Territory.
 Bot. Gazette, 3. 1. 1878.
- Baptisia sulphurea*.
 Bot. Gazette, 3. 65. 1878.
- A Synopsis of the American Firs (*Abies* of Link).
 Trans. St. Louis Acad. Sci. 3. 593-602. 1878.
- Cactaceæ, Asclepiadeæ, Gentianeæ, Cuscutæ, Euphorbiaceæ,
 Cupuliferæ, Loranthaceæ, Coniferæ, Amaryllideæ, Juncææ.
 Wheeler's Rep. U. S. Geog. Surv., 6. 1878.
- Pine.
 Johnson's Univ. Cyclopædia, 3. 1256-1275. 1878.
- Cuscuta*.
 Gray's Syn. Fl. N.A. 1. 219-224. 1878.
- The Gymnospermy of Coniferæ. (Review of a paper by Dr.
 L. Celakovsky in Flora for June, 1879.)
 Am. Jour. Sci. 3. 18. 311-313. 1879.
- Wild Grapes.
 Trans. St. Louis Acad. Sci. 4. 44. 1880.
- Revision of the genus *Pinus*, and description of *P. Elliottii*.
 Trans. St. Louis Acad. Sci. 4. 161-193, 3 tab. 1880.
- The Acorns and their germination.
 Trans. St. Louis Acad. Sci. 4. 190-192. 1880.
- Catalpa speciosa*, Warder.
 Bot. Gazette, 5. 1. 1880.
- Vitality of the seeds of serotinous cones.
 Bot. Gazette, 5. 62. 1880.
- Fraxinus quadrangulata*.
 Bot. Gazette, 5. 63. 1880.
- Cupuliferæ, Loranthaceæ, Abietineæ.
 Rep. Geol. Surv. California. 2. 1880.
- Notes on *Abies amabilis* and *A. grandis*.
 Gardener's Chronicle, London, n. ser. 14. 720. 1880.
- Some account of the vegetation along the Great Lakes.
 Trans. St. Louis Acad. Sci. 4. 20. 1880.
- Some additions to the North American Flora.
 Bot. Gazette, 6. 223-225, 238. 1881.
- Western Conifers.
 Bot. Gazette, 7. 4-5. 1882.
- Some additions to the North American Flora.
 Bot. Gazette, 7. 5-6. 1882.
- Texas Oaks.
 Bot. Gazette, 7. 14. 1882.
- Yucca elata*, n. sp., *Y. macrocarpa*, n. sp.
 Bot. Gazette, 7. 17. 1882.
- Female flowers of Coniferæ.
 Bot. Gazette, 7. 104-105. 1882.
- The Black-fruited *Cratægi*, and a new species.
 Bot. Gazette, 7. 127-129. 1882.

Additions to the Flora of the United States (*Cratægus arborescens*, *Sagittaria natans*).

Bull. Torr. Bot. Club, 9. 4-5. 1882.

Rosa minutifolia, n. sp.

Bull. Torr. Bot. Club, 9. 97-98, 127. 1882.

Note on *Picea Engelmanni* and *P. pungens*.

Gardener's Chronicle, London, n. ser. 17. 145. 1882.

Pinus tatisquama, n. sp.

Gardener's Chronicle, London, n. ser. 18. 712. f. 125. 1882.

The Female flowers of *Coniferæ*.

Am. Jour. Sci. 3. 23. 418-422; 24. 233-235. 1882.

The genus *Isoëtes* in North America.

Trans. St. Louis Acad. Sci. 4. 358-390. 1882.

Note on *Catalpa speciosa*.

Trans. St. Louis Acad. Sci. 4. 50. 1882.

Euphorbia deltoidea.

Chapman's Fl. S. States. Suppl. 647. 1883.

Plantago pusilla.

Bot. Gazette, 8. 175. 1883.

Vitis palmata.

Bot. Gazette, 8. 254. 1883.

Brooks' Wood Specimens.

Bot. Gazette, 8. 337, 338. 1883.

Morphology of Spines.

Bot. Gazette, 8. 338. 1883.

The true Grape Vines of the United States, and the Diseases of Grape Vines.

The Bushberg Cat. 3d ed. 9-20, 47-48. 1883.

The Occurrence of Cork between the Annual Layers in the Stem of *Catalpa speciosa*, Warder.

BY C. R. BARNES.

Mr. W. H. Ragan, Secretary of the Mississippi Valley Horticultural Society, handed to me recently a small section of *Catalpa speciosa* (fig. 4), grown from the seed by A. H. Gaston, at Lacon, Ill. The specimen was cut from the lower end of a tree three years old, and was intended to show the great rapidity of growth of this species. Truly the growth had been rapid, as the following measurements show :

First year's growth, average radius, 7.5^{mm}

Second " " " thickness, 12.5^{mm}

Third " " " " 11.5^{mm}

Bark " " " 3^{mm}

Average diameter of stem, 67.5^{mm}